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21 January 1958

MEMORANDUM FOR: Chief, Technical Services Staff**SUBJECT : Request for Additional Support for Redesign and Modification of the TBS Hydrogen Generator****REFERENCE : A. Memorandum dated 21 August 1957 for C/TBS, Subject: Request for Initiation of Test and Evaluation of Subject Generator****B. Memorandum dated 10 December 1957 for C/TBS, Subject: Request for Extension of T&E and for Redesign and Modification of the Subject Generator**

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1. Description of the Project

This is an existing project that is concerned with the test and evaluation and redesign and modification of a TBS developed Mobile Hydrogen Generator. The generator produces hydrogen from the disassociation of ammonia and the product gas is intended to meet the needs of Area Division propaganda balloon operations. The test and evaluation and the redesign and modification of the generator are well underway. The testing uncovered a design fault that involves high temperature metallurgy and redesign of a basic generator part is necessary.

2. Purpose of the Project

The purpose of this part of the project is twofold. One, a contractor that is an expert in the field of high temperature metallurgy will be brought into the program and lend assistance to the testing group and to the original contractor. Two, the results of this study work will not only be applied to the immediate redesign but will form the basis for the design of replacement retorts which are intended for subsequent shipment to the generator operations site.

3. Recommended Contractor

The recommended contractor for this part of the work is [redacted] [redacted] The field of high temperature metallurgy is one in which this organization has a very high level of technical competence. The testing will continue to be under the guidance of the Industrial Gas Branch, Mechanical Division, [redacted]

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25X25X1

4. Total Cost~~**SECRET**~~**CONFIDENTIAL**

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5. Support Requirements

Liaison will be maintained [] for the testing and with [] 25X1
when ownership transfer of the generator takes place.

6. Project Engineer

The project engineer for this program is [] Room 212, 25X1
West Outbuilding, [] 25X1

7. Security Information

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[] 25X1
Chief
TSS/Engineering Division

DD/P/TSS/ED [] 25X1

Distribution:

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1 - [] File
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